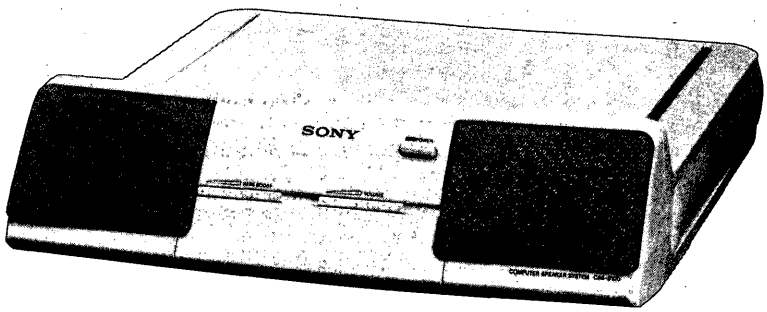
CSS-B100

SERVICE MANUAL

US Model
AEP Model



SPECIFICATIONS

Amplifier section

Power output: 2.5W + 2.5W (US model)
2W + 2W (10% harmonic distortion) (AEP model)

Inputs: RCA pin jacks (INPUT 1)
Stereo mini jack (INPUT 2)
Input level: –10 dB*(245 mV)
Inpedance: 47 kilohms

Output: Stereo mini jack (PHONES)
Output level: 30 mW
Impedance: 16 ohms

Speaker section

System: Full-range

Speaker unit: Full-range (magnetically shielded): ø 77 mm ($3^1/_8$ in.)

Nominal impedance: 8 ohms

Rated input power: 3 W

Computer connections

Inputs: RCA pin jacks (AUDIO, VIDEO)
Monaural mini jack (MIC)
Input level: –60 dB*(0.775 mV)
Inpedance: 3 kilohms

Output: RCA pin jacks (AUDIO, VIDEO)
Stereo mini jack (MIC OUT)
Output level: –10 dB*(245 mV)
Impedance: 10 kilohms

General

Power requirement: DC IN 9V jack accepts the supplied Sony AC power adaptor (Operating Voltage)
US model : 120V AC, 60Hz
AEP model : 220-230V AC, 50Hz

Dimensions: Approx. 370 x 95 x 405 mm (w/h/d) ($10^3/_4$ x $3^3/_4$ x 16 in.) incl. projecting parts and controls

Mass: Approx. 2.7 kg (5 lbs. 12 oz.)

Supplied accessories:
AC power adaptor (1)
Connecting cord (stereo mini plug ⟷ RCA pin plug x 2) (1)

Optional accessories:
A/V connecting cable VMC-815S
Plug adaptor PC-236MS
Connecting cord RK-G129, RK-G136, VMC-15

* 0 dB = 0.775 V

Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information.

Design and specifications are subject to change without notice.

使用時は添付資料も参照のこと
Refer to the additional documents.

COMPUTER SPEAKER SYSTEM

SONY®

Features

The Sony CSS-B100 is a speaker system with a built-in power amplifier designed for use with a computer. A Discman, WALKMAN*, etc. can be connected to this system as well.

- Equipped with a headphones jack.
- Power output of 2.5 W + 2.5 W.
- BASS BOOST control for boosting the bass.
- Space-saving design enables the system to be placed under a display monitor.
- Load bearing display monitors of less than 25 kg (55 lbs. 2 oz.).

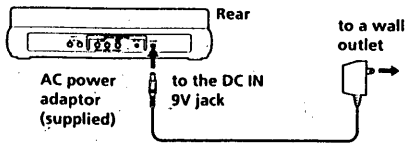
* WALKMAN is a registered trademark of Sony Corporation.

Recommended display monitor

This computer speaker system is designed for use with a display monitor placed on top of the system. Recommended model is CPD-15SF.

Power Requirements

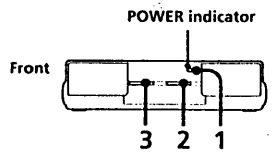
The mains power source is required when the system is used.



Note on the AC power adaptor

Use only the supplied AC power adaptor.
Do not use any other AC power adaptor.

Operations



1 **Press the POWER switch (⏻) to turn on the system.** (Be sure to turn on the connected equipment before turning on this switch.) The POWER indicator lights up.
2 **Adjust the volume with the VOLUME control.**
3 **Adjust the bass level with the BASS BOOST control.**

After listening

Press the POWER switch (⏻) to turn off the system. The POWER indicator goes out.

To boost the bass

Adjust the BASS BOOST control to suit the sound of the computer software. To boost the bass, slide the BASS BOOST control toward the right-hand side. When the sound is distorted, slide the BASS BOOST control toward the left-hand side.

Note

When the system is connected to a monaural jack of a computer, the sound may only come through the left speaker. In such a case, use the optional Sony plug adaptor PC-236MS. The sound will come through both speakers.

Precautions

- Use only the supplied AC power adaptor for operating the system. Do not use any other AC power adaptors.
- After operating the system with the AC power adaptor, disconnect the AC power adaptor from the wall outlet if the system is not to be used for an extended period of time. The POWER switch on the front panel does not turn the AC power adaptor off.
- Do not open the speaker cabinets. Refer servicing to qualified personnel only.
- Do not leave the system in a location near heat sources, or in a place subject to direct sunlight, excessive dust, moisture, rain or mechanical shock.
- Should any solid object or liquid fall into either speaker, disconnect the AC power adaptor and have the speaker checked by qualified personnel before operating it any further.
- When the speaker cabinet becomes soiled, clean it with a soft cloth slightly moistened with a mild detergent solution. Never use alcohol, benzine or thinner as they may mar the finish.
- Although this system is magnetically shielded, as a precaution, do not leave recorded tapes, watches, personal credit cards or floppy disks using magnetic coding in front of or close to the system for an extended period of time .

If you have any questions or problems concerning your system that are not covered in this manual, please consult your nearest Sony dealer.

If the TV picture or display monitor is magnetically distorted

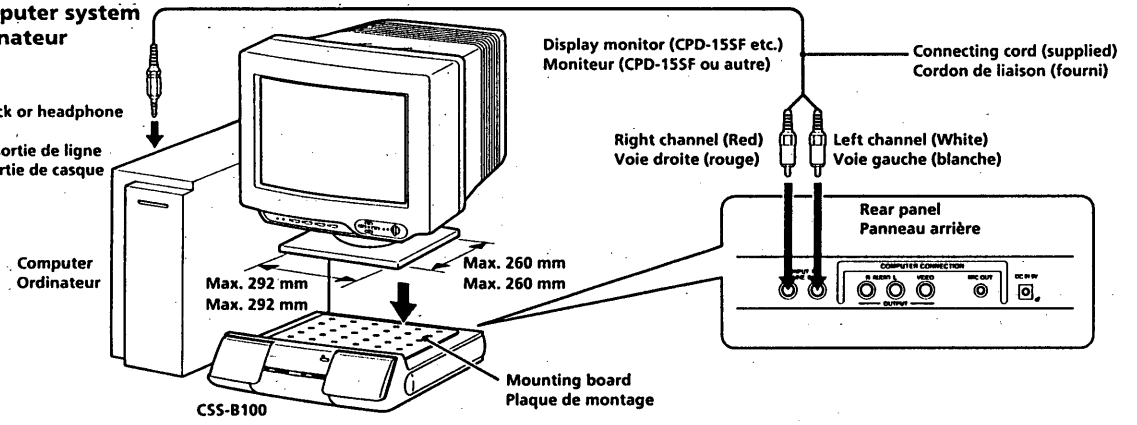
Although this system is magnetically shielded, there may be cases where the picture on some TV sets/personal computer sets becomes magnetically distorted. In such a case, turn off the power of the TV set/personal computer set once, and after 15 to 30 minutes turn it on again. For the personal computer set, take the appropriate measures such as data storage before turning it off.
When there seems to be no improvement, locate the system further away from the TV set/personal computer set. Furthermore, be sure not to place objects in which magnets are incorporated or used near the TV set/personal computer set, such as audio racks, TV stands, toys etc. These may cause magnetic distortion to the picture due to their interaction with the system.

This section is extracted from instruction manual.

Connections

Connexions

Connecting to a computer system
Connexion à un ordinateur



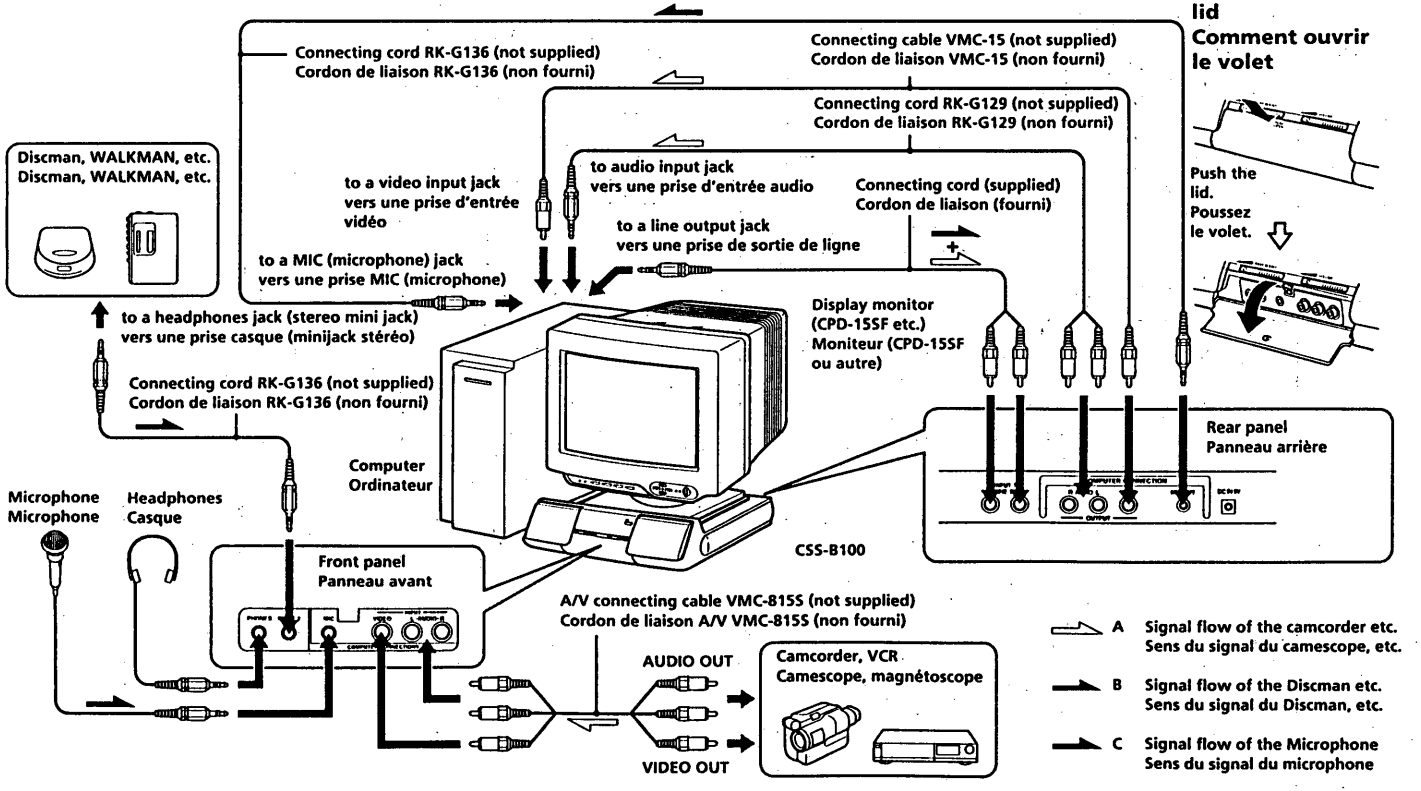
Note

Make sure that the display monitor placed on the system is smaller than the mounting board. The maximum sizes are 292 mm in width and 260 mm in depth. The weight of the display monitor should be lighter than 25 kg.

Remarque

Le moniteur placé sur le système doit être plus petit que la plaque de montage. Les dimensions maximum sont 292 mm de large et 260 mm de profondeur. Le moniteur doit également faire moins de 25 kg.

Connecting to peripherals
Connexion à des périphériques


Connecting cord RK-G136 (not supplied)
Cordon de liaison RK-G136 (non fourni)
Connecting cable VMC-15 (not supplied)
Cordon de liaison VMC-15 (non fourni)
Connecting cord RK-G129 (not supplied)
Cordon de liaison RK-G129 (non fourni)
Discman, WALKMAN, etc.
Discman, WALKMAN, etc.
to a video input jack
vers une prise d'entrée vidéo
to audio input jack
vers une prise d'entrée audio
Connecting cord (supplied)
Cordon de liaison (fourni)
to a line output jack
vers une prise de sortie de ligne
to a MIC (microphone) jack
vers une prise MIC (microphone)
to a headphones jack (stereo mini jack)
vers une prise casque (minijack stéréo)
Display monitor (CPD-15SF etc.)
Moniteur (CPD-15SF ou autre)
Connecting cord RK-G136 (not supplied)
Cordon de liaison RK-G136 (non fourni)
Computer
Ordinateur
Rear panel
Panneau arrière
Microphone
Microphone
Headphones
Casque
Front panel
Panneau avant
CSS-B100
A/V connecting cable VMC-815S (not supplied)
Cordon de liaison A/V VMC-815S (non fourni)
AUDIO OUT
VIDEO OUT
Camcorder, VCR
Camescope, magnétoscope
A Signal flow of the camcorder etc.
Sens du signal du camescope, etc.
B Signal flow of the Discman etc.
Sens du signal du Discman, etc.
C Signal flow of the Microphone
Sens du signal du microphone

How to open the lid
Comment ouvrir le volet

Note on the PHONES (headphones) jack

Connect the headphones (not supplied) to the PHONES (headphones) jack on the front panel. The sound from the speakers is automatically turned off.

Note on the INPUT 1 and 2 jacks

When source equipment (Discman etc.) is connected to INPUT 2 on the system the sound from both the computer and source equipment will come out of the speakers. Therefore, make sure that either of them is always turned off.

Note on the MIC (microphone) jack

Be sure to connect a computer to the system when you use the MIC (microphone) jack. Otherwise the sound from the microphone will not be heard from the system.

Remarque sur la prise PHONES (casque)

Branchez le casque (non fourni) sur la prise PHONES (casque) sur le panneau avant. Le son des enceintes est automatiquement coupé.

Remarque sur les prises INPUT 1 et 2

Quand un appareil source (Discman, etc.) est raccordé à la prise INPUT 2 du système, le son de l'ordinateur et de l'appareil source sort en même temps sur les enceintes. Prenez donc soin de toujours mettre l'un des deux appareils hors tension.

Remarque sur la prise MIC (microphone)

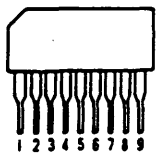
Prenez soin de raccorder un ordinateur au système quand vous utilisez la prise MIC (microphone), sinon vous ne pouvez pas entendre le son du microphone sur les enceintes.

SEE ADDITIONAL INFORMATION

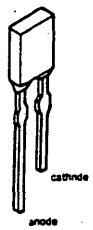
SECTION 2
DIAGRAMS

2-1. SEMICONDUCTOR LEAD LAYOUTS

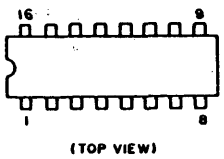
BA3308



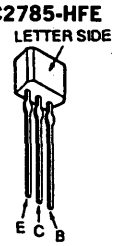
25G111YG-3DG



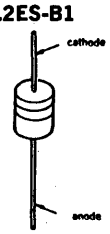
TDA2824



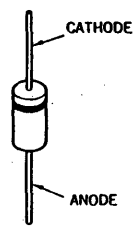
2SC2785-HFE



RD6.2ES-B1



10E2

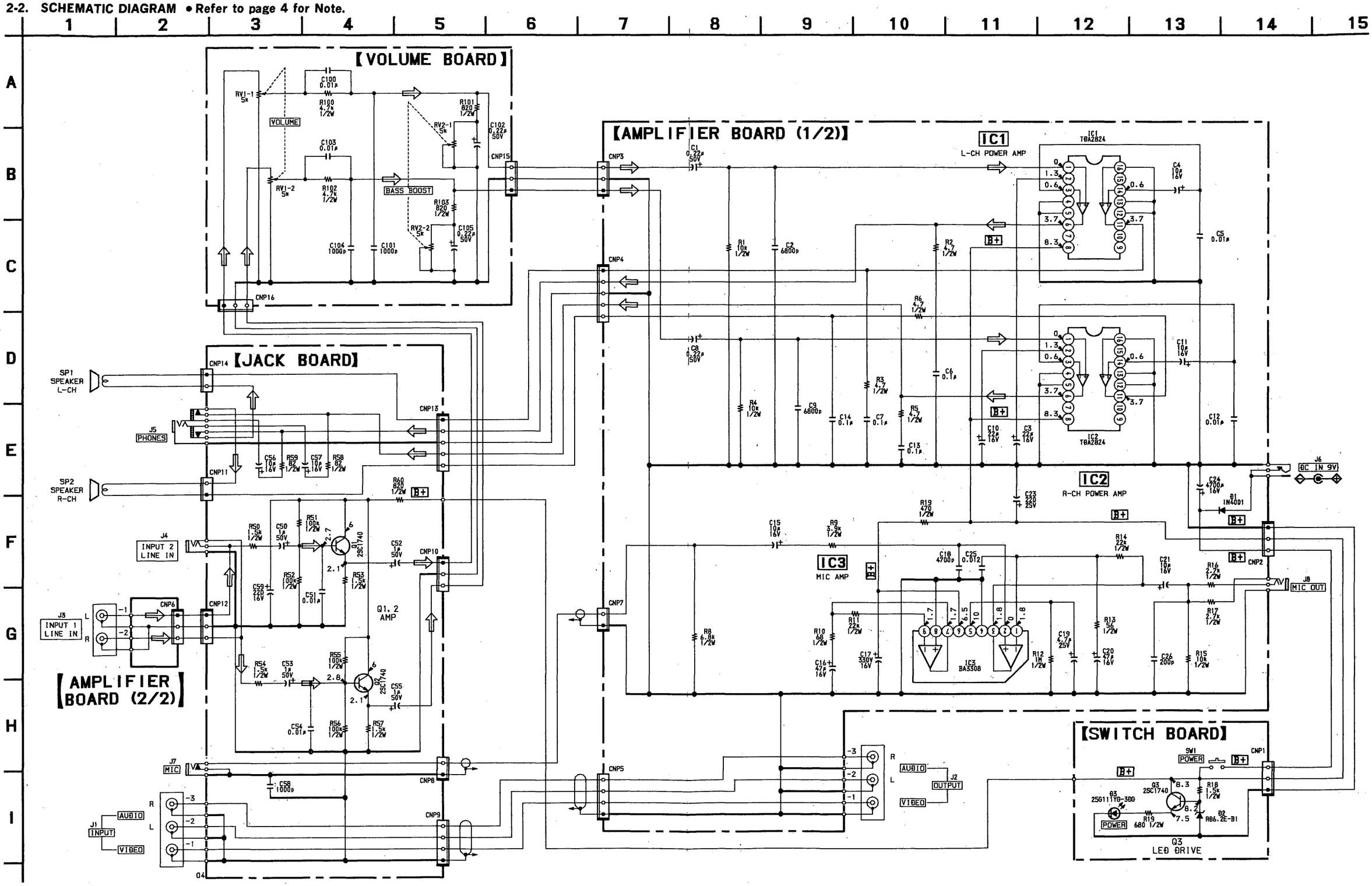


Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- B+ : B+ Line
- Power voltage is dc 9V and fed with regulated dc power supply from external power voltage jack.
- Voltage is dc with respect to ground under no-signal conditions.
- no mark: POWER ON
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : LINE

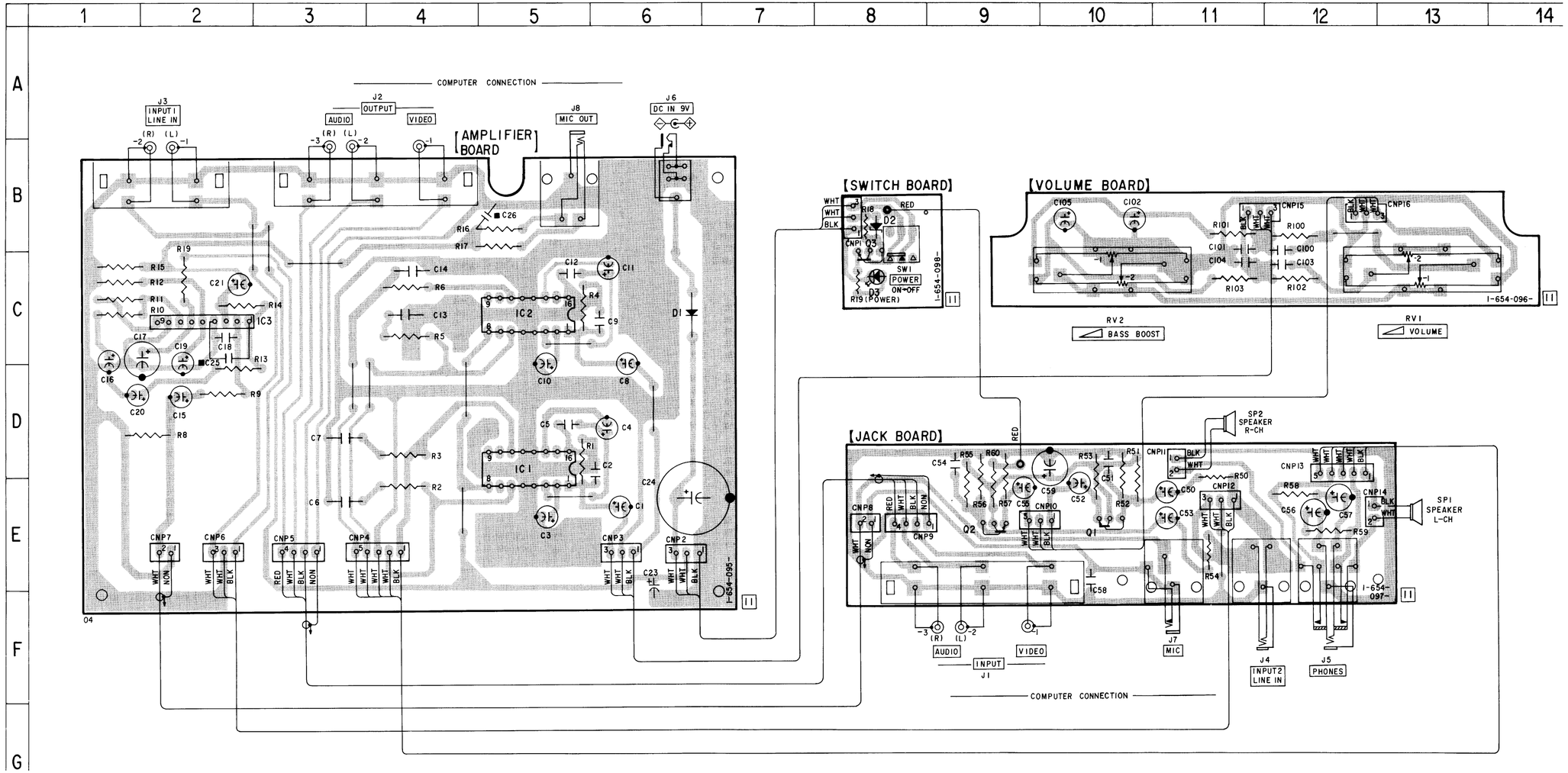
SEE ADDITIONAL INFORMATION

2-2. SCHEMATIC DIAGRAM • Refer to page 4 for Note.



SEE ADDITIONAL INFORMATION

2-3. PRINTED WIRING BOARDS • Refer to page 4 for Semiconductor Lead Layouts.



• Semiconductor Location

Ref. No.	Location
D1	C-6
D2	B-8
D3	C-8
IC1	D-5
IC2	C-5
IC3	C-2
Q1	E-10
Q2	E-9
Q3	B-8

Note :
- ○— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▨ : Pattern on the side which is seen.

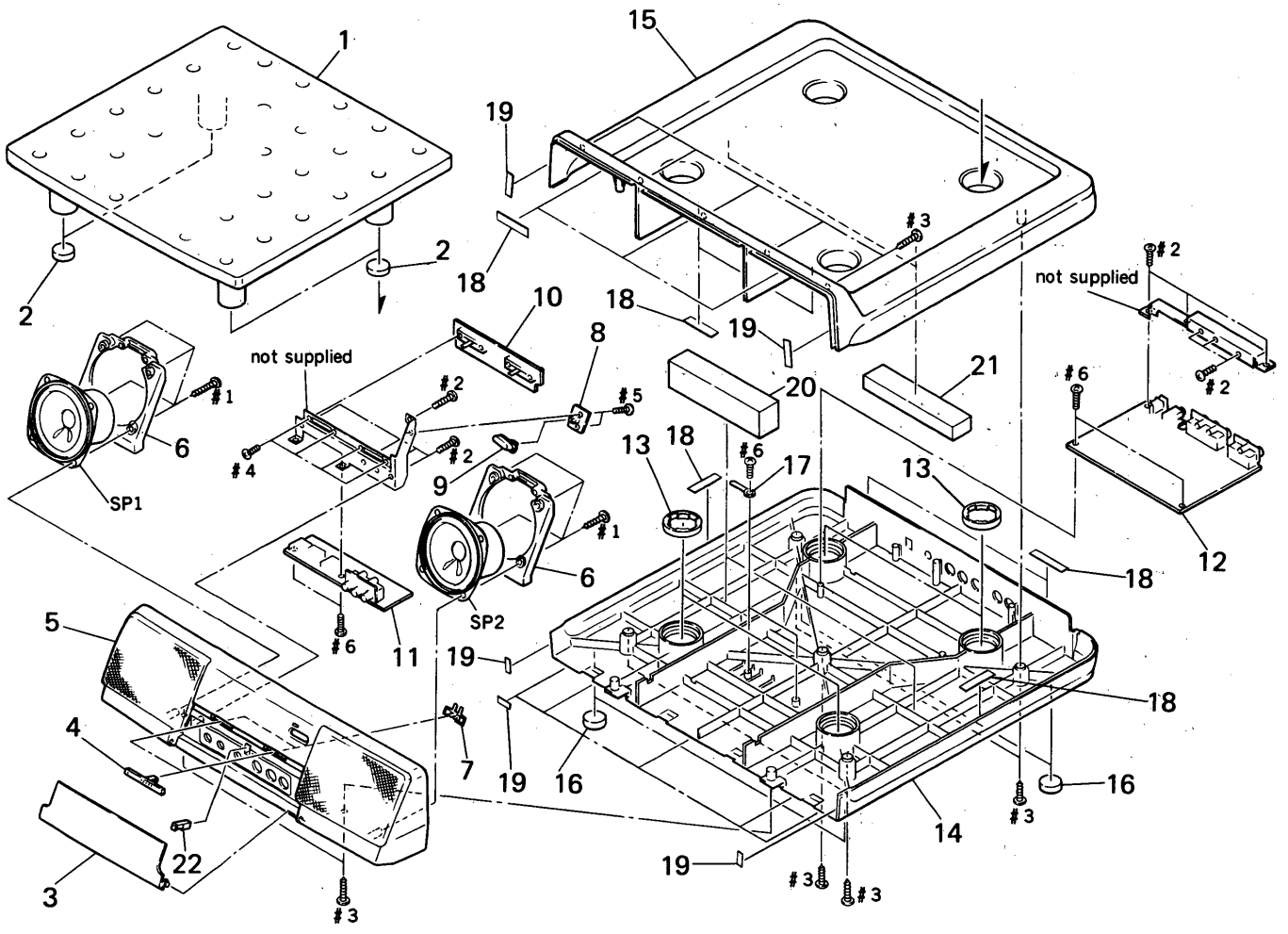
REVISED

SECTION 3
EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

3-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	4-968-560-01	TABLE, MONITOR	
2	4-969-501-01	FOOT (MONITOR TABLE), RUBBER	
3	4-968-565-01	COVER, CONTROL	
4	4-968-564-01	KNOB	
5	X-4945-289-1	PANEL ASSY, FRONT	
* 6	4-968-563-01	RETAINER, SPEAKER	
* 7	4-968-562-01	JOINT	
* 8	1-654-098-11	SWITCH BOARD	
9	4-968-561-01	BUTTON (POWER)	
* 10	1-654-096-11	VOLUME BOARD	
11	1-654-097-11	JACK BOARD	
* 12	A-4542-254-A	AMPLIFIER BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
13	4-969-503-01	CUSHION (VIBRATION PROOF)	
* 14	4-968-559-01	CASE, LOWER	
* 15	4-968-558-01	CASE, UPPER	
16	4-969-502-01	FOOT, RUBBER	
17	3-703-397-01	STOPPER, WIRING	
18	3-831-441-11	CUSHION, SPEAKER GRILLE	
19	3-831-441-XX	CUSHION, SPEAKER GRILLE	
20	4-970-694-01	CUSHION	
21	4-970-693-01	CUSHION	
22	4-627-936-01	LOCK, MINIATURE SIDE	
SP1	1-504-701-11	SPEAKER	
SP2	1-504-701-11	SPEAKER	

SEE ADDITIONAL INFORMATION

SECTION 4
ELECTRICAL PARTS LIST

AMPLIFIER | JACK

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-4542-254-A	AMPLIFIER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-124-464-11	ELECT	0.22uF	20%	50V
C2	1-106-363-00	FILM	0.0068uF	5%	200V
C3	1-126-233-11	ELECT	22uF	20%	50V
C4	1-126-964-11	ELECT	10uF	20%	16V
C5	1-130-483-00	MYLAR	0.01uF	5%	50V
C6	1-130-495-11	MYLAR	0.1uF	5%	50V
C7	1-130-495-11	MYLAR	0.1uF	5%	50V
C8	1-124-464-11	ELECT	0.22uF	20%	50V
C9	1-106-363-00	FILM	0.0068uF	5%	200V
C10	1-126-233-11	ELECT	22uF	20%	50V
C11	1-126-964-11	ELECT	10uF	20%	16V
C12	1-130-483-00	MYLAR	0.01uF	5%	50V
C13	1-130-495-11	MYLAR	0.1uF	5%	50V
C14	1-130-495-11	MYLAR	0.1uF	5%	50V
C15	1-126-964-11	ELECT	10uF	20%	16V
C16	1-126-967-11	ELECT	47uF	20%	16V
C17	1-126-541-11	ELECT	330uF	20%	16V
C18	1-101-003-00	CERAMIC	0.0047uF		50V
C19	1-124-927-11	ELECT	4.7uF	20%	100V
C20	1-126-967-11	ELECT	47uF	20%	50V
C21	1-126-964-11	ELECT	10uF	20%	16V
C23	1-126-969-11	ELECT	220uF	20%	25V
C24	1-124-523-11	ELECT	4700uF	20%	16V
C25	1-161-052-00	CERAMIC	0.012uF	10%	50V
C26	1-102-977-00	CERAMIC	200PF	5%	50V
		< DIODE >			
D1	8-719-200-02	DIODE	10E2		
		< IC >			
IC1	8-759-194-70	IC	TDA2824		
IC2	8-759-194-70	IC	TDA2824		
IC3	8-759-939-73	IC	BA3308		

Ref. No.	Part No.	Description			Remark
		< JACK >			
* J2	1-766-777-11	JACK, PIN 3P (AUDIO/VIDEO OUTPUT)			
* J3	1-766-776-11	JACK, PIN 2P (INPUT 1 LINE IN)			
J6	1-573-667-11	JACK, DC (POLAR UNITY TYPE) (DC IN 9V)			
J8	1-766-779-11	JACK (3.5 STEREO) (MIC OUT)			
		< RESISTOR >			
R1	1-247-764-11	CARBON	10K	5%	1/2W
R2	1-249-482-11	CARBON	4.7	5%	1/2W
R3	1-249-482-11	CARBON	4.7	5%	1/2W
R4	1-247-764-11	CARBON	10K	5%	1/2W
R5	1-249-482-11	CARBON	4.7	5%	1/2W
R6	1-249-482-11	CARBON	4.7	5%	1/2W
R8	1-247-762-11	CARBON	6.8K	5%	1/2W
R9	1-247-759-11	CARBON	3.9K	5%	1/2W
R10	1-247-737-11	CARBON	68	5%	1/2W
R11	1-249-489-11	CARBON	22K	5%	1/2W
R12	1-214-937-00	METAL	1M	1%	1/2W
R13	1-247-736-11	CARBON	56	5%	1/2W
R14	1-249-489-11	CARBON	22K	5%	1/2W
R15	1-247-764-11	CARBON	10K	5%	1/2W
R16	1-247-757-11	CARBON	2.7K	5%	1/2W
R17	1-247-757-11	CARBON	2.7K	5%	1/2W
R19	1-247-747-11	CARBON	470	5%	1/2W
**********					
	1-654-097-11	JACK BOARD			
		**********			
		< CAPACITOR >			
C50	1-124-903-11	ELECT	1uF	20%	50V
C51	1-130-483-00	MYLAR	0.01uF	5%	50V
C52	1-124-903-11	ELECT	1uF	20%	50V
C53	1-124-903-11	ELECT	1uF	20%	50V
C54	1-130-483-00	MYLAR	0.01uF	5%	50V
C55	1-124-903-11	ELECT	1uF	20%	50V
C56	1-124-964-11	ELECT	10uF	20%	50V
C57	1-126-964-11	ELECT	10uF	20%	50V
C58	1-161-039-00	CERAMIC	0.001uF	10%	50V
C59	1-124-120-11	ELECT	220uF	20%	25V

JACK **SWITCH** **VOLUME**

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description			Remark
		< JACK >			
* J1	1-766-777-11	JACK, PIN 3P (AUDIO/VIDEO INPUT)			
J4	1-766-779-11	JACK (3.5 STEREO) (INPUT 2 LINE IN)			
J5	1-766-778-11	JACK (3.5 STEREO) (PHONES)			
J7	1-766-780-11	JACK (3.5 MONAURAL) (MIC)			
		< TRANSISTOR >			
Q1	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q2	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
R50	1-247-754-11	CARBON	1.5K	5% 1/2W	
R51	1-249-496-11	CARBON	100K	5% 1/2W	
R52	1-249-496-11	CARBON	100K	5% 1/2W	
R53	1-247-754-11	CARBON	1.5K	5% 1/2W	
R54	1-247-754-11	CARBON	1.5K	5% 1/2W	
R55	1-249-496-11	CARBON	100K	5% 1/2W	
R56	1-249-496-11	CARBON	100K	5% 1/2W	
R57	1-247-754-11	CARBON	1.5K	5% 1/2W	
R58	1-247-738-11	CARBON	82	5% 1/2W	
R59	1-247-738-11	CARBON	82	5% 1/2W	
R60	1-247-751-11	CARBON	820	5% 1/2W	
**********					
*	1-654-098-11	SWITCH BOARD			
		**********			
		< DIODE >			
D2	8-719-109-92	DIODE RD6.2ES-B1			
D3	8-719-051-90	LED 25G111YG-3DG (POWER)			
		< TRANSISTOR >			
Q3	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
R18	1-247-754-11	CARBON	1.5K	5% 1/2W	
R19	1-247-750-11	CARBON	680	5% 1/2W	
		< SWITCH >			
SW1	1-762-161-11	SWITCH, PUSH (1 KEY) (POWER)			
**********					
*	1-654-096-11	VOLUME BOARD			
		**********			
		< CAPACITOR >			
C100	1-161-051-00	CERAMIC	0.01uF	10% 50V	
C101	1-161-039-00	CERAMIC	0.001uF	10% 50V	
C102	1-124-464-11	ELECT	0.22uF	20% 50V	
C103	1-161-051-00	CERAMIC	0.01uF	10% 50V	
C104	1-161-039-00	CERAMIC	0.001uF	10% 50V	
C105	1-124-464-11	ELECT	0.22uF	20% 50V	
		< RESISTOR >			
R100	1-247-760-11	CARBON	4.7K	5% 1/2W	
R101	1-247-751-11	CARBON	820	5% 1/2W	
R102	1-247-760-11	CARBON	4.7K	5% 1/2W	
R103	1-247-751-11	CARBON	820	5% 1/2W	
		< VARIABLE RESISTOR >			
RV1	1-223-754-11	RES, VAR 5K/5K (VOLUME)			
RV2	1-223-754-11	RES, VAR 5K/5K (BASS BOOST)			
**********					
		MISCELLANEOUS			
		**********			
SP1	1-504-701-11	SPEAKER			
SP2	1-504-701-11	SPEAKER			
**********					

HARDWARE LIST

#1	7-685-649-79	SCREW +BVTP 3X14 TYPE2 IT-3
#2	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S
#3	7-685-662-79	SCREW +BVTP 4X14 TYPE2 N-S
#4	7-621-255-15	SCREW +P 2X3
#5	7-621-255-45	SCREW +P 2X6
#6	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S

****

ACCESSORIES & PACKING MATERIALS

****

⚠	1-467-817-11	ADAPTOR, AC (US)
⚠	1-693-006-21	ADAPTOR, AC (AC-S195) (AEP)
	1-590-038-11	CORD, CONNECTION
	3-759-295-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, ITALIAN) (AEP)
	3-759-295-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (US)
*	4-969-196-01	INDIVIDUAL CARTON

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

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(Including 9-959-657-91)

CSS-B100

SONY®
SERVICE MANUAL

US Model
AEP Model

SUPPLEMENT-1

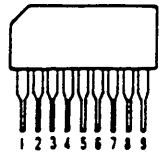
File this supplement with the service manual.

Subject: CHANGE OF SCHEMATIC DIAGRAM AND PRINTED WIRING BOARDS BY CHANGE OF POWER AMPLIFIER IC (IC1 and IC2).

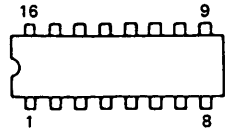
SECTION 1
DIAGRAMS

1-1. SEMICONDUCTOR LEAD LAYOUTS

BA3308

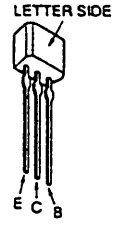


TEA2025B

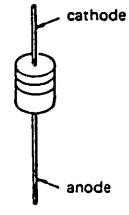


(TOP VIEW)

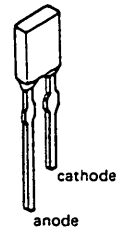
2SC2785-HFE



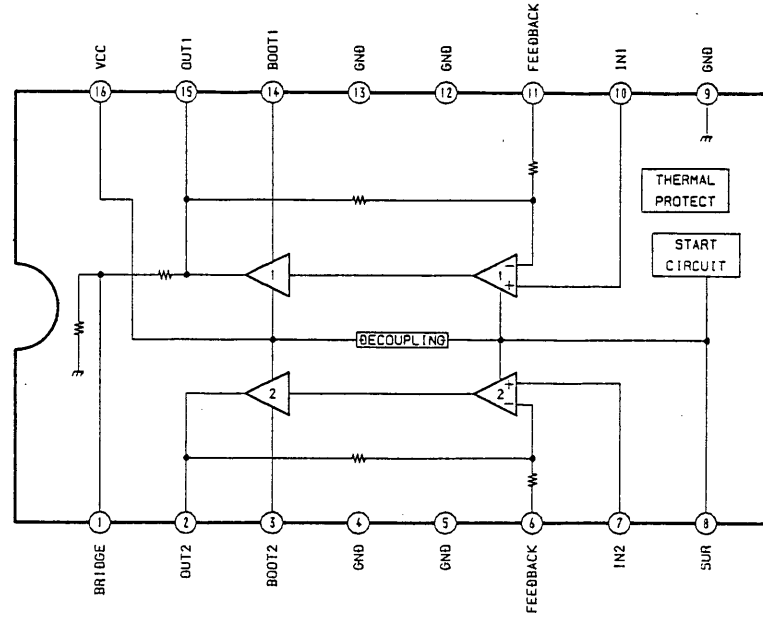
RD6.2ES-B1
11ES2



25G111YG-3DG



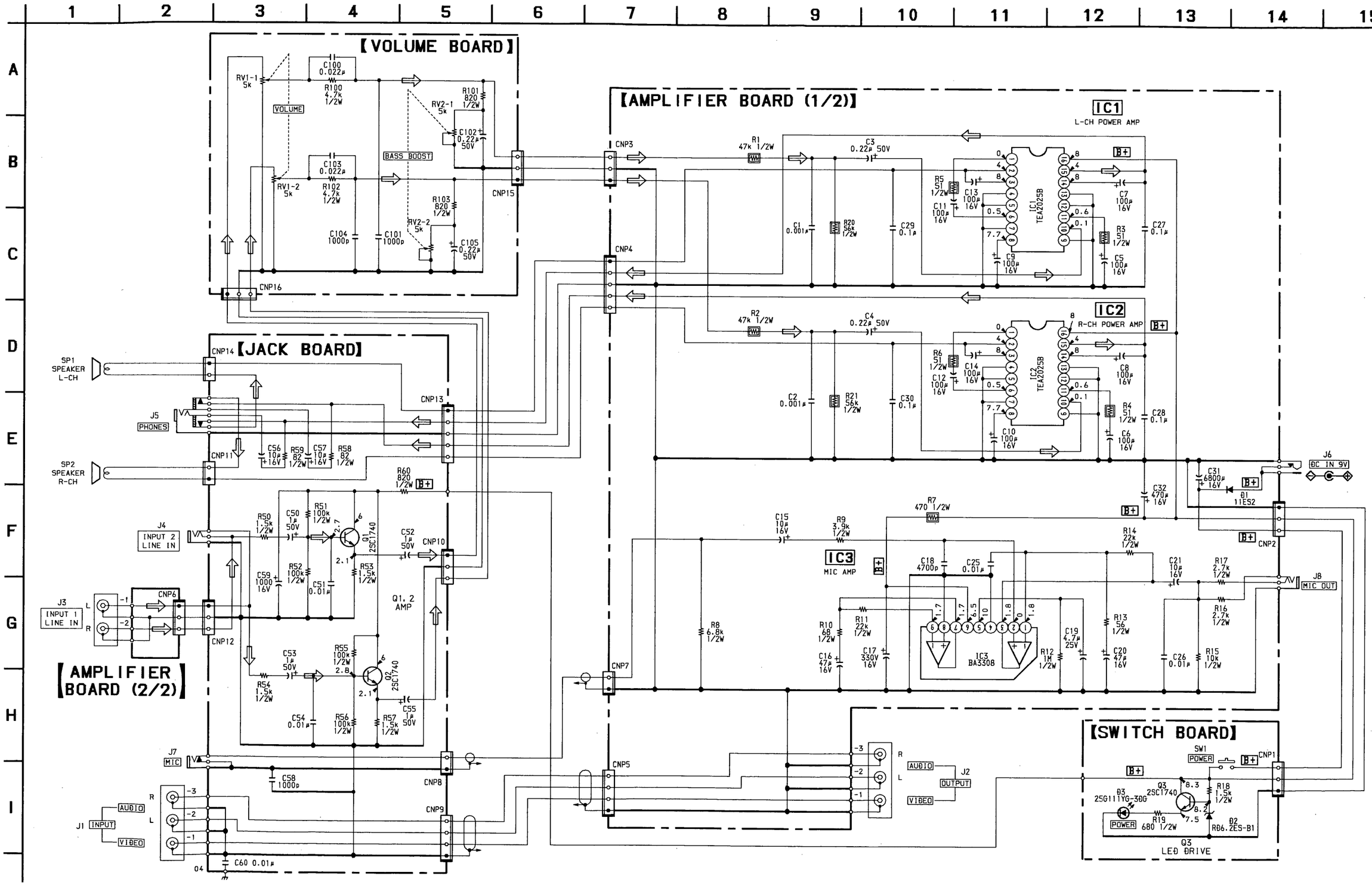
• IC Block Diagram
IC1, 2 TEA2025B



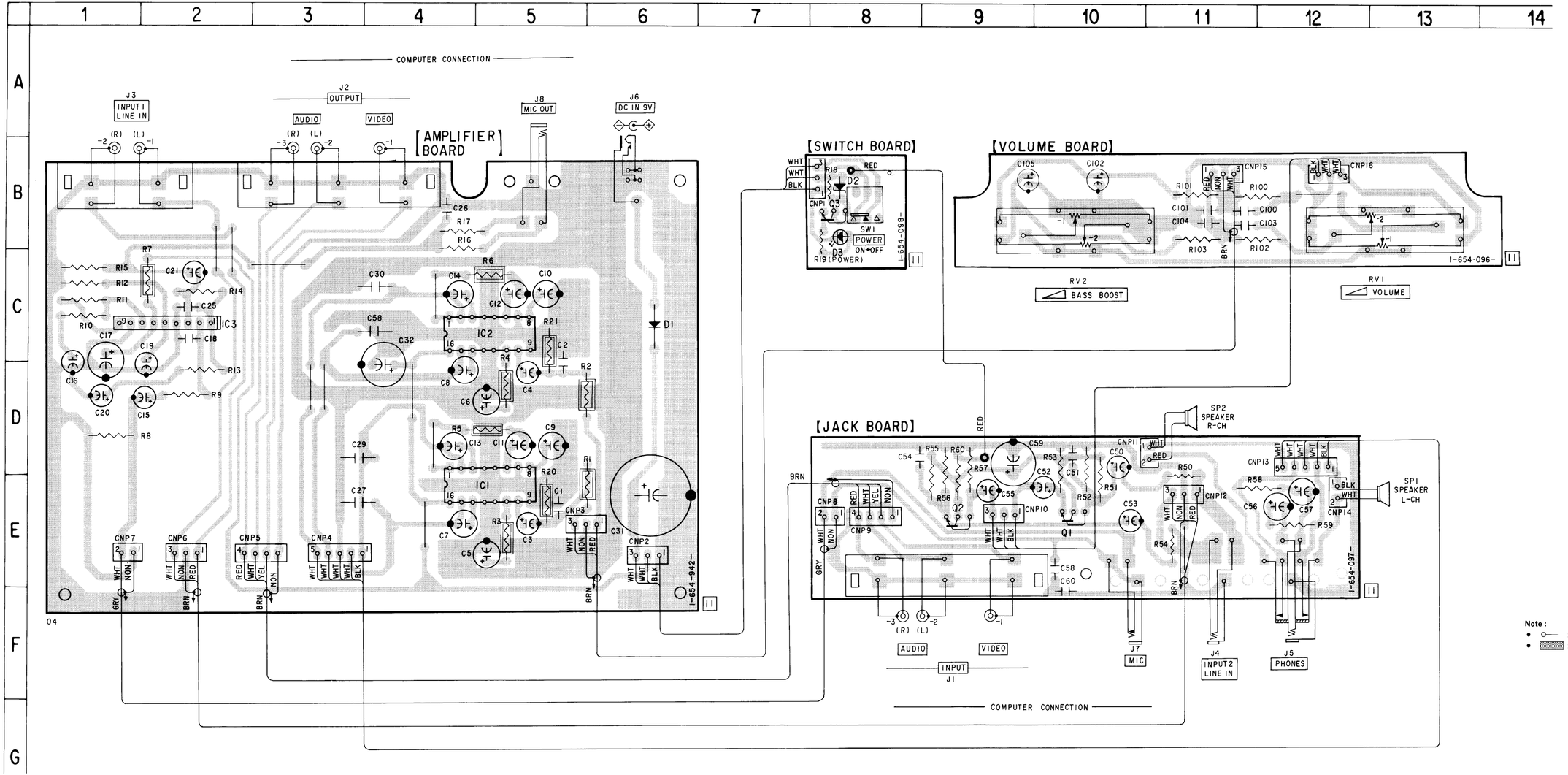
Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : nonflammable resistor.
- B+ : B+ Line
- Power voltage is dc 9V and fed with regulated dc power supply from external power voltage jack.
- Voltage is dc with respect to ground under no-signal conditions.
- no mark: POWER ON
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : LINE

1-2. SCHEMATIC DIAGRAM • Refer to page 2 for IC Block Diagram and Note.



1-3. **PRINTED WIRING BOARDS** • Refer to page 2 for Semiconductor Lead Layouts.



• **Semiconductor Location**

Ref. No.	Location
D1	C-6
D2	B-8
D3	B-8
IC1	E-5
IC2	C-5
IC3	C-2
Q1	E-10
Q2	E-9
Q3	B-8

Note :
- ○— : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.

AMPLIFIER **JACK**

SECTION 2
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-4542-254-A	AMPLIFIER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-130-471-00	MYLAR	0.001uF	5%	50V
C2	1-130-471-00	MYLAR	0.001uF	5%	50V
C3	1-124-464-11	ELECT	0.22uF	20%	50V
C4	1-124-464-11	ELECT	0.22uF	20%	50V
C5-14					
	1-126-101-11	ELECT	100uF	20%	16V
C15	1-126-964-11	ELECT	10uF	20%	16V
C16	1-126-967-11	ELECT	47uF	20%	16V
C17	1-126-541-11	ELECT	330uF	20%	16V
C18	1-101-003-00	CERAMIC	0.0047uF		50V
C19	1-124-927-11	ELECT	4.7uF	20%	100V
C20	1-126-967-11	ELECT	47uF	20%	16V
C21	1-126-964-11	ELECT	10uF	20%	16V
C25	1-161-051-00	CERAMIC	0.01uF	10%	50V
C26	1-161-051-00	CERAMIC	0.01uF	10%	50V
C27-30					
	1-130-495-11	MYLAR	0.1uF	5%	50V
C31	1-126-316-51	ELECT	470uF	20%	16V
C31	1-126-017-11	ELECT	6800uF	20%	16V
		< DIODE >			
D1	8-719-200-82	DIODE 11ES2			
		< IC >			
IC1	8-759-512-88	IC TEA2025B			
IC2	8-759-512-88	IC TEA2025B			
IC3	8-759-939-73	IC BA3308			
		< JACK >			
* J2	1-766-777-11	JACK, PIN 3P (OUTPUT AUDIO/VIDEO)			
J3	1-766-776-11	JACK, PIN 2P (INPUT 1 LINE IN)			
J6	1-573-667-11	JACK, DC (POLAR UNITY TYPE) (DC IN 9V)			
J8	1-766-779-11	JACK (3.5 STEREO) (MIC OUT)			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R1	1-249-492-11	CARBON	47K	5%	1/2W
R2	1-249-492-11	CARBON	47K	5%	1/2W
R3-6					
	1-247-209-00	CARBON	51	5%	1/2W
R7	1-247-747-11	CARBON	470	5%	1/2W
R8	1-247-762-11	CARBON	6.8K	5%	1/2W
R9	1-247-759-11	CARBON	3.9K	5%	1/2W
R10	1-247-737-11	CARBON	68	5%	1/2W
R11	1-249-489-11	CARBON	22K	5%	1/2W
R12	1-214-937-00	METAL	1M	1%	1/2W
R13	1-247-736-11	CARBON	56	5%	1/2W
R14	1-249-489-11	CARBON	22K	5%	1/2W
R15	1-247-764-11	CARBON	10K	5%	1/2W
R16	1-247-757-11	CARBON	2.7K	5%	1/2W
R17	1-247-757-11	CARBON	2.7K	5%	1/2W
R20	1-249-493-11	CARBON	56K	5%	1/2W
R21	1-249-493-11	CARBON	56K	5%	1/2W
**********					
	1-654-097-11	JACK BOARD			
		**********			
		< CAPACITOR >			
C50	1-124-903-11	ELECT	1uF	20%	50V
C51	1-130-483-00	MYLAR	0.01uF	5%	50V
C52	1-124-903-11	ELECT	1uF	20%	50V
C53	1-124-903-11	ELECT	1uF	20%	50V
C54	1-130-483-00	MYLAR	0.01uF	5%	50V
C55	1-124-903-11	ELECT	1uF	20%	50V
C56	1-126-964-11	ELECT	10uF	20%	16V
C57	1-126-964-11	ELECT	10uF	20%	16V
C58	1-161-039-00	CERAMIC	0.001uF	10%	50V
C59	1-126-952-11	ELECT	1000uF	20%	16V
C60	1-161-051-00	CERAMIC	0.01uF	10%	50V

Ref. No.	Part No.	Description			Remark
		< JACK >			
* J1	1-766-777-11	JACK, PIN 3P (INPUT AUDIO/VIDEO)			
J4	1-766-779-11	JACK (3.5 STEREO) (INPUT 2 LINE IN)			
J5	1-766-778-11	JACK (3.5 STEREO) (PHONES)			
J7	1-766-780-11	JACK (3.5 MONAURAL) (MIC)			
		< TRANSISTOR >			
Q1	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q2	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
R50	1-247-754-11	CARBON	1.5K	5%	1/2W
R51	1-249-496-11	CARBON	100K	5%	1/2W
R52	1-249-496-11	CARBON	100K	5%	1/2W
R53	1-247-754-11	CARBON	1.5K	5%	1/2W
R54	1-247-754-11	CARBON	1.5K	5%	1/2W
R55	1-249-496-11	CARBON	100K	5%	1/2W
R56	1-249-496-11	CARBON	100K	5%	1/2W
R57	1-247-754-11	CARBON	1.5K	5%	1/2W
R58	1-247-738-11	CARBON	82	5%	1/2W
R59	1-247-738-11	CARBON	82	5%	1/2W
R60	1-247-751-11	CARBON	820	5%	1/2W
**********					
*	1-654-098-11	SWITCH BOARD			
		**********			
		< DIODE >			
D2	8-719-109-92	DIODE RD6.2ES-B1			
D3	8-719-051-90	LED 25G111YG-3DG (POWER)			
		< TRANSISTOR >			
Q3	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
R18	1-247-754-11	CARBON	1.5K	5%	1/2W
R19	1-247-750-11	CARBON	680	5%	1/2W
		< SWITCH >			
SW1	1-762-161-11	SWITCH, PUSH (1 KEY) (POWER)			
**********					

Ref. No.	Part No.	Description			Remark
*	1-654-096-11	VOLUME BOARD			
		**********			
		< CAPACITOR >			
C100	1-161-170-11	CERAMIC	0.022uF	20%	50V
C101	1-161-039-00	CERAMIC	0.001uF	10%	50V
C102	1-124-464-11	ELECT	0.22uF	20%	50V
C103	1-161-170-11	CERAMIC	0.022uF	20%	50V
C104	1-161-039-00	CERAMIC	0.001uF	10%	50V
C105	1-124-464-11	ELECT	0.22uF	20%	50V
		< RESISTOR >			
R100	1-247-760-11	CARBON	4.7K	5%	1/2W
R101	1-247-751-11	CARBON	820	5%	1/2W
R102	1-247-760-11	CARBON	4.7K	5%	1/2W
R103	1-247-751-11	CARBON	820	5%	1/2W
		< VARIABLE RESISTOR >			
RV1	1-223-754-11	RES, VAR 5K/5K (VOLUME)			
RV2	1-223-754-11	RES, VAR 5K/5K (BASS BOOST)			

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